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WNINTEL **Z-14569/8**2

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PREFACE

Report Overview

1. (S/WN) This subsection of the compendium contains an overall introduction with a location map and an individual basic report on each type A missile support base.

Notes for the Reader

- 2. (S/WN) Each individual basic report contains textual information which is formatted by subject so that comparisons are easier for the reader. The photograph of each missile support base shows the central area. All buildings have been measured and accounted for in the text for each individual basic report.
- 3. (S/WN) It was not practical to present a chronology of construction and missile equipment observations by each date of photographic coverage because the imagery record for each site spans up to 23 years. Coverage also has been sporadic. The gaps in coverage and the poor resolution of the imagery acquired prior to 1972 considerably reduced the amount of obtainable information.
- 4. (S/WN) In each basic report, construction activity was sometimes dated within a span of time—from the negation date to the date first observed—because of lack of coverage and poor resolution. Where evidence from photography was sufficient, a judgement was made as to the probable time of construction within the time span.
- 5. (S/WN) The floorspace of buildings used for housing is presented in square meters. it was determined that the floorspace in most barracks averages 80 percent of the measured roof area; however, some buildings had a lower percentage of floorspace because of building design. Terms such as "company-sized unit" and "company-sized area" indicate a military unit of from 90 to 140 people or the housing space to accommodate a unit of that size at a ratio of 4.6 square meters of floorspace per person. The buildings used for housing at missile bases were often geographically separated into company-sized areas, each with one messhall and one basketball court. The number of company-sized areas as well as total floorspace and other data to indicate personnel strength and organization have been provided in each basic report.

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IA-iii

Type A Missile Support Bases And Type I Launch Sites (S)

INTRODUCTION

Definitions

Type A Missile Support Base

(S/WN) A type I launch site consists of a launch pad without any storage facilities for propellants
or missile equipment. Most sites have a single
apron surrounding it. Type I launch sites are typically in remote locations and are not occupied except
during a crisis or as a contingency. They are also termed field positions.

Type A Missile Support Bases

Number and Location

3. (S/NN) Through March 1982, NPIC has identified ten type A bases in China. They have been found both along the periphery of China, where missiles can be launched from within range of strategic targets, and in the interior of the country, where the missiles must be moved hundreds of kn to be in range of strategic targets (Figure 1). The following installations are classified as type A missile support bases and are listed below in the order they were established:

Installation Name	Be Number	Date Established
Wuwei SSM Field Garrison		1961 (deactivated in 1976)
Xian SSM Technical Training Facility		1961 — 1962
Dengshahe SSM Field Garrison		1961-1962
Yidu SSM Technical Training Facility		1961 — 1962
Dengshahe SSM Field Garrison North		1966
Kunming SSM Field Garrison		1967 (probably deactivated in 1980)
Dianhu SSM Support Facility		1969
Fengrun SSM Field Garrison		1971
Xixia SSM Field Garrison		1973 (deactivated in 1979)
Datong SSM Field Garrison		1976

General Description and Comparison of Type A Missile Support Bases

4. [S/M/N] The common element among the ten type A missile support bases is that the missiles and missile CSEs in them are stored in buildings (Figure 2). Missiles on transporters and missile TrEs are stored in missile theolox/torage buildings. The size of these bases varies greatly, from those housing parts of only one launch unit and having one missile checkout/storage buildings, who were present to the missile banchout only.

5. [S/M/N] Vehicle garage space and housing floorspace also vary greatly from one base to another. Only one type A missile support base (Finguran) contains enough garage space for all the vehicles necessary to support the number of launch units at the base. Most of the type A bases contain only one-half to one-third of the necessary grazee gaze. The subset provides accommodations for 400 to 600 persons per missile checkout/storage building. Some bases could accommodate 5,000 to 600 persons but those bases also contain a school or other training facilities and therefore need additional housing space.

■ TYPE A MISSILE SUPPORT BASE TYPE I MISSILE LAUNCH POSITIONS NPIC T-4220

FIGURE 1. LOCATIONS OF TYPE A MISSILE SUPPORT BASES AND TYPE I LAUNCH POSITIONS, CHINA

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6. (5/MNO) An unusual aspect of each type A missile support base, and one which makes it difficult to identify them, is that all of the base were established in existing installations that were not previously associated with missile forces (Figure 3). Often, old amy barracks were used; in one intrance (Xisia) a commune headquarters building or school was converted. One missile base (Datong) was established in a abandoned communication ssettlie ground station.
7. (S/MNO) It now appears that this stratagem was intentional, in order to delay identification of the emissile base from overhead imagery. The Chinese further complicated identification by storing the missile equipment, in the types of garages which could be seen at any army barracks as well as at many civilian installations. Also, the missile checkout/storage buildings are simple, gable-oron one and of which building. The missile checkout/storage buildings are simple, gable-oron to the end of which building. The missile checkout/storage buildings have no other identifying features, such as stacks or unique appendages. These methods of deception were consistently used at each base. They successfully delayed identification of new bases, particularly those established in the 1960s.

8. (S/WN) As indicated above, a type A missile support base does not contain missile equipment or launch units which are already deployed. Rather, it is a storage facility and hiding place for missile equipment which must be consolidated and transported to a deployment area. It has only been during

crisis periods or during training exercises that complete missile launch units have been observed and propellants for the missile supplied.

9. (S/WN) Normally, all missile equipment is either stored in buildings or camouflaged with nets. CSE is also parted under trees or next to buildings. If CSE is in the open and uncovered, routine maintenance, training activities, or deployment could be underway. It is difficult to determine if deployment is underway without corresponding imagery of many other base in the missile force and imagery of areas where these units might train or deploy, Because missile launch units apparently are not deployed from type A missile support base, south as the properties of the p

10. (S/WN) Type A missile support bases are the oldest bases in China. They were established in the 1960s originally for the SRBM and CSS-1 MRBM systems. Seven of the ten type A bases—Wuwei, Xian, Yidu, Dengshahe, kumning, Dahnu, and Xistia—initially contained SRBM equipment. Both Diahnu (established in 1969) and Xista (established in 1973) probably received SRBM equipment that was removed.

from some of the older type A bases as CSS-1 equipment replaced the SRBM system. CSS-1 GSE subsequently was observed at six of the seven bases which had first contained SRBMs. The CSS-1 was the first missile system to be introduced at Dengshahe North and Fengrun.

11. ISAWN Since 1970, CSS-2 IRBM CSE has been observed at seven of the ten type A bases. CSS-2s were first introduced in the early 1970s at two of the three bases with associated training schools (Wawei and Yidu) and were then observed at Kunning, Datong, Xian, Dengshahe, and Dengshahe North between 1976 and 1979. By November 1981, all of the CSS-2 equipment had been removed from the two Dengshahe bases, but the CsMB share of the CSS-2 equipment had been removed from the two Dengshahe bases, but the CsMB share of the CSS-2 missile system.

12. ISAWN Because Vide was a technical training school for all of China's operational missile systems until 1978. It contained Trifs for the SRBM, CSS-1, CSS-2, and the CSS-1 CBM. Xian, another school, apparently contains equipment for all those systems and for the CSS-4 ICBM and the WU-1 solid-propellant missile system. Details of the chronology of equipment sightings at each base are reported in the individual basic reports.

13. (S/WN) Because type A missile support bases originally were established for the SRBM and CSS-

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1 missile systems, both of which are no longer in production, the role of type A bases in China's future deployment plans is not clear. The number of operating type A bases, the number of possible missile launch units in type A bases, and the percentage of the Chinese missile force in type A missile support bases are all declining. China's SRBM units possibly are no longer operational, and the number of operational CSS-1 units appears to be declining. While CSS-2 equipment has been brought to some type A bases to replace or augment aging CSS-1 systems, the overall trends cited above continue. They indicate a decline in the importance of type A bases.

14. (S/WN) The CSS-2 force is growing but CSS-2 launch units stored in type A missile support bases have considerable operational disadvantages compared to CSS-2s in type C or even type B missile support bases. The CSS-2 uses storable propellants, so the lack of propellant storage facilities in or near type A missile support bases delays deployment of CSS-2 launch units. The CSS-1 and SRBM use a cryogenic oxidizer which cannot be stored long-term, so the lack of propellant storage facilities in type A bases did not further limit CSS-1/SRBM capabilities for deployment.

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15. (S/WN) The capability to hide the existence of some type A missile support bases and to conceal CSS-2s and GSE in them could continue to enhance the survivability of a part of the Chinese missile forces. However, no strong attempt has been made to disguise any of the bases currently housing CSS-2 equipment. The CSS-2 base at Datong, the newest type A base to be detected, is very large—extending over a 5-kilometer area—and houses several hundred pieces of equipment and 5,000—6,000 persons. Its size alone attracts attention. Also, repeated imaging can eventually reveal a type A missile support base because missile equipment is brought into the open for training or maintenance. Unless more type A bases are soon constructed or old ones detected, current trends indicate that all of the type A bases operating in 1982 could be deactivated within the next five years.

16. (S/WN) While the importance of remote type A bases appears to be declining, the amount of training and other preparations for deployment to remote type I launch sites are increasing. More field training areas have been detected in the last five years, and existing field training facilities have been much improved. Also in the past five years, missile support vehicles with greater offroad capability have been introduced, and more realistic field training has been conducted, including exercises in bad weather and missile firings for the first time from launch positions in the field. It is particularly unlikely that missile launch units deployed to remote locations singly or in groups of two (as have been seen in training) will be detected. Given the present frequency and interpretability of imagery of undeveloped areas of China, routine deployments of up to six months duration in these remote areas could escape detection.

Type I Launch Sites

Number and Location

Installation Name

17. (S/WN) Through March 1982, 23 type I launch sites have been identified in China. Eighteen have one launch position and five have two launch positions, making a total of 28 type I launch positions (Figure 1). Twenty-five of the 28 type I launch positions have been converted to training areas or were built initially as training areas. All are presently titled as training launch sites or positions. Only three of the type I launch sites contain the original austere, hard-to-identify launch positions, where no training is conducted and to which the Chinese might be expected to deploy missiles in wartime. An example is Liuqingkou SSM Field Training Position 1 (Figures 5 and 6). Type I launch sites are listed in alphabetical order in the table below.

Be Number

^{*}Contains two launch positions.

General Description and Comparison of Type I Launch Positions

- 18. (S/WN) Twenty-six of the 28 type I launch positions have concrete launch pads. The pads at most of those sites are 7.6 meters square. The training launch pads within the Tonghua and Datong garrisons are smaller. Only a packed-earth launch point has been observed at the two type I launch positions at Fusong SSM Field Training Position 1.
 - 19. (S/WN) An apron surrounds the launch pad at each type I launch position. The apron is usually

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^{**}Site where no training has been observed.

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of packed earth, but its size and shape vary widely. At some	e type I launch positions, a concrete missile-
loading apron from 20 to 35 meters long and	abuts the launch pad. It is used as a level
surface on which to attach the reentry vehicle to the missile	
However, missiles have been observed successfully assemb	oled and erected at type I launch positions
without a concrete loading apron.	

20. (S/WN) There appears to be no other feature which is standard or necessary at type I launch positions. Some sites, especially those frequently used for training, have many improvements, such as all-concrete aprons, night lighting, and complete housing and missile storage facilities. None of those additions are considered necessary, because missiles have been fired from type I launch sites that contain only a stable launch surface such as at Shuangta. The Shuangta sites also lack power and communications transmission lines. Power sufficient for launches can be supplied from generator trailers, which are part of each launch unit. Communications-related van-bodied trucks have also been observed with the launch units.

Missile System Association

21. (S/WN) Missile exercises for the SRBM, the CSS-1, and the CSS-2 have been observed at type I launch positions. All three types of missiles have been erected at various times on the same pad at Yidu and Jiumengjin. It is believed that any type I launch position could be used by an SRBM, a CSS-1, or a CSS-2 launch unit.

Imagery Analyst's Comments

- 22. (S/WN) It is unlikely that all type I launch positions have been located. Missile GSE has been observed where no missile launch position has been detected. For example, two SRBM checkout tents, missile support vans, and a possible SRBM T/E were observed during field training exercises 60 km (95 km by road) east-southeast of Dianhu SSM Field Garrison No launch position has been found in this area. To reach the training location after leaving the main highway, the vehicles had to travel on an unimproved road for about 1 km and then cross a stream.
- 23. (S/WN) Possible field positions from the 1969-70 Sino-Soviet border crisis are still being discovered. For example, an abandoned possible type I launch site (Figure 8) was recently identified in western China, in the same valley as Dagaidam SSM Launch Site 2 The site was constructed in 25X1 1969 or 1970, during the Sino-Soviet border crisis, but was only recently detected on imagery of the Dagaidam launch sites, which are under construction. The possible launch site had a square launch pad area marked by a stake or tripod; the pad area was surrounded by a rectangular, leveled apron accessible by one road. The access road leads to a group of approximately 30 vehicle revetments and 15 tent bases or dismantled shelters. The possible launch area is similar in layout and size to the launch area at Minlud SSM Field Training Position, and the revetments are similar to those used at Shuangta SSM Field Training Position 1, both of which are in this region of China. Part of the launch apron has been eroded by a nearby stream. A second possible type I launch site was found nearby, in the same valley as Dagaidam SSM Launch Site 1 If these possible sites are field launch positions, they would be the 25X1 westernmost type I launch sites detected in China which were constructed during the 1969 border crisis with the Soviet Union. They also would have been farthest from rail service. In 1969, the road distance
- 24. (S/WN) Type I field positions can be constructed in 2 to 21 days, depending on the material used for the launch pad. Also, missile launch units could use any suitably stable surface in an emergency or as a contingency. Road intersections, grain threshing yards, brickyards, and basketball courts are all examples of common and hard surfaces which, with only a few improvements, might be used in an emergency.

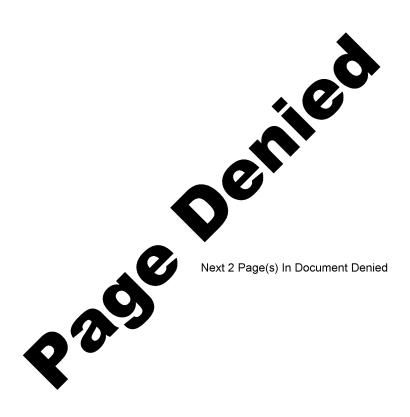
northward or eastward to the nearest rail line was 150 to 200 kilometers.

- 25. (S/WN) As mentioned previously, there has been an increase in training for deployment to remote launch sites, but only one new type I launch position not used for training has been detected. This launch position is identified as Liuqingkou SSM Field Training Position 2, which was constructed in 1978. The identification of a bulldozer and some other construction equipment in a display of GSE for a CSS-2 or CSS-3 launch unit at Xian in 1981 is new evidence that each field-deployed launch unit will prepare its launch position, possibly at a presurveyed point, after arrival in the deployment area. Bulldozers have also been noted at Fengrun and Datong type A missile support bases, but the display at Xian was the most direct evidence that construction equipment is part of the GSE complement for some missile launch units.
- 26. (S/WN) The information in this subsection supersedes the previously published NPIC reports listed below.

RCA-01/0021/71, Apr 71 (TOP SECRET CODEWORD)	25X1
PIN 044/74, Dec 74 (TOP SECRET CODEWORD	25 X 1
RCA-01/0013/74, Apr 74 (TOP SECRET CODEWORD)	25X1
RCA-01/0001/75, Nov 74 (TOP SECRET CODEWORD	
RCA-01/0014/75, Sep 75 (TOP SECRET CODEWORD)	
RCA-01/0005/72, Nov 72 (TOP SECRET CODEWORD	
RCA-01/0001/79, Jul 79 (TOP SECRET CODEWORD)	25X1

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GTALLATION OR ACTIVITY NAME Wuwei SSM: Field Garrison		COUNTRY
		СН
TM COORDINATES	DEDGRAPHIC COORDINATES	
IA.	37-56-58N 102-40-05E	
IAP REFERENCE		

Jun 60 BASIC DESCRIPTION

1. (S/WN) Wawel SSM Field Gartion (Figure 1) is a type A missile support base that was deactivated in 1976 by the CSR. It is in Grass Province, in the Landbou MR in western China. It is 1 in out hevet of the town of Waves, 5 has monthest of the town of Waves, 55 has monthest of the town of Waves, 55 has monthest of the CSR. It is the CSR i

- 2. (CAVN) A reparable-record minister and SSI strange area was at the extreme southwast corner of the statisty. In considered of four implied betwork/stronge buildings, the limited checkout/stronge buildings, the limited checkout/stronge buildings, the limited checkout/stronge buildings, which was a beginning to a beginning the strange gazeges with a road of 39 bays; and a beginning the strange strange with a road of 30 bays; two which is strange bays. Another implies the strange bays and the strange bays in a motor pool perspacely described below.
- bays in a motor pool separately described below.

 1. (SAWN) The SMV training launch position was in the extreme northeast corner of the facility and was also separately secured. It consisted of a launch area with all considered positions of the secure of

4. (5/WN) A motor pool area was along the east wall between the missile and GSE storage area and the SSM training launch position. It contained seen vehicle storage garages and sheek with a total of 91 km, Moslie GDs area. The storage garages and sheek with a total of 91 km, Moslie GDs area. The storage garages and sheek with a total of 91 km, Moslie GDs area. The storage garages and sheek with a total of 91 km storage and supplier. The storage and supplier. The garages and so contained a weather station with suggented instrumentation storage and supplier. The garages and so contained a weather station with suggented instrumentation, which included four instrumentation boxes and two weather radar vans. Both a Paracel A radar and a Canton A radar were observed at the station.

Barracks and Housing Area

5. S/NW) The barracks and housing area contained approximately 23,842 square meters off barracks floorspace in 26 single-story barracks and four two-story administration/barracks buildings. In the four administration/barracks buildings, 50 percent of the total foonspace was barracks floorspace. At a ratio of 4.6 square meters of barracks floorspace per person, Wwell had the capacity to house approximately

5.183 milltary persons. Additionally, 184 housing units and 34 large family housing units were present. These quarters added the housing space for 27L more milltary persons, increasing the total capacity of Winwell os 35% people in 35 to 80 company-steed units. The facility also contained seven large menshalls, three small menshalls, three kachens, three administration buildings, an administration Classroom build-ings, an additional, and a hospital.

Construction Chronology

Missile System Association and Activity

- Assales system Association and Activity
 7. (JWNN) The grainton was first studied in 1961, when seven misule checkout/storage buildings and several gazeges were complete and the associated launch position (Shuangta SMF field Training Position and which tracks a Shuangta indicated mindle launch and training that skeep beer, in Javany 1961, and selbst transporter was identified at the Wavelgazzinon. In October 1966, no RSMM exercise was observed at the faining position. An SSMM on transporter and an SSMM TV were present. Very liftle integery search and the state of the stat
- SSM equipment at Wiswel was deployed or removed from the garrison during the build-up of tensions and border conflict with the USSE in 1969.

 8. GWN In 1970, the Wiswel garrison was confirmed on imagery as a missile installation, and shaungs SSM field fraining brotion in vasa to indentified. Consequently, the amount of imagery of the shaungs SSM field fraining brotion was an indeed to the control of the cont

Imagery Analyst's Comments

- Imagery Analyst's Comments

 10. JSNN IN The first observed CSS-2 equipment arrived at Datong SSM field Carrison, 90 km scathward of Wowel, in October 1976. Between May and October 1976, equipment was removed from Wawel, suggesting that the CSS-2 GR at Datong was from Wavel. Alox, CSS-1 GS was observed at a support area of Xining Adried in for the first time in October 1976, suggesting that I also was from Wavel. Xining Adried in Supromisms 13 km sound to October, the control in the Comment of Comments 10 km sound to October 1976, suggesting that I also was considered from these training outsides in 1976 and CSS-1 mindle Burners were conducted from these training positions in 1972 and 1976. The CSS-1 equipment for these firings was not from Wowel, which had been abandoned, or from the Xining Affried support area, where the equipment remainted. In November and December 1979, 2 GSS-2 launch unit conducted a winter field training operation at Shanagas SSM field training Position in 1979, 2 GSS-2 launch be been observed at any of the Shanager training positions in Stene 1970.

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INSTALIATION OF AL	TIVITY NAME		COUNTRY
Xian SSM Tech	nical Training Facility		СН
UTM COORDINATES NA	GEOGRAPHIC COORDINATES 34-18-46N 109-07-21E		'
SAC. USATC,	eries 200, Sheet 0385-11, scale 1	:200,000	-
LATEST IMAGERY USE		NEGATION DATE (Frequired)	
DALEST IMPACREEL 036		NEGATION DATE (Frequired)	

BASIC DESCRIPTION

3. ("SVNN Xian SSM.TIF (Figure 1) is in the eastern suburbs of the city of Xian, in Shaanst Province, in nonth-central Chias. It is situated on flat terrain in a beavity agricultural and populated uses. The bories of the control of the city of th

- Baracks and Housing Area

 5. IS/NON 1 he barracks and bousing area cortains approximately 23.27 square meters of barrack floorspace in seven multitory, multi-ning buildings. At a ratio of 4.5 square meters of barrack floorspace in seven multitory, multi-ning buildings. At a ratio of 4.5 square meters of barrack floorspace persons, Nat IT has the capacity house approximately 5.02 people in 21 to 32 company-active and 70 to 80 quarters for single officers. The family quarters and 70 to 80 quarters for single officers. The family quarters are independently superformed to 1.2 state, for extraory partners buildings. These quarters are in double-walled compounds across the road from and north of the facility. These compounds also contain a school for dependent children, a disposary, stores, and recention areas.

 6. IS/NNO Allogebuter, 5200 to 5,600 military personned could be housed at Xian TT. Approximately one-half of the houseling space is probably for transient personnel attendights exchool Xian TT is at least the special activity of the special partners of the special pa

Construction Status

Auxiliary SM field finding points, and such as a partially well-accured school area, a motor pool, at the control of the

3. (S/WN) Additional GSE storage at Xian TTF includes one 6-bay garage, three 12-bay garages, one
14-bay garage, and one 15-bay garage. This provides space to store 71 vehicles. With the exception of one
strategic SSM system has been observed at Xian TTF. Since June 1983, missile-related sechoical training.

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- new 12-bay grazge, all the garages in this area are narrow and appear to be for small trucks and vehicles. A possible missile checkuou/forage building (with two 25-meter-long bays) is also present. This building was a small process of the facility of the small process of the facility of the small process of the facility of the facil observed at the TIF.

 9. G/WN) No missile equipment or missile-related buildings were possent in Murch 1989 when Xian
 TIF was first seen on interpretable photography. A missile-associated function for the TIF first became
 apparent in December 1959, when buildings capable of storing SSMH-sized GSX were observed. In 1944,
 when Musiyan SSM Field Training Position was first observed, it was already an operational field training
 position. Until 1 was describated in 1973, Musicapa probably severed as the training is for units based at Xian TIF. Four missile checkout/storage buildings, capable of housing the CSS-1 and then the CSS-2,
 were constructed in 1986 and 1977.
 - 10. IS/MN Most Images, and 19/7.

 10. IS/MN Most Images, acquired from 1962 to 1972 was of low resolution and poor interpretability. During this time, there were few sightings of missile-related equipment. In June 1963, a mobile gantry crane was observed. A possible SRBM T/E was first observed in June 1967. In May 1970, an SRBM T/E was confirmed.

 - confirmed.

 1. SANNA In July 1975, two possible unshed varue were observed on a June 1986. In Ndy 1970, an SBBM FE was
 display building, in October 1977, CSS-2/CSS-3 misle CGF was confirmed for the first time when the
 CSS-2/CSS-3 proglate trucks were determined more the misliss training and display building. Although
 CSS-3 training has never been confirmed at the TFL CSS-2 propellant trucks and other learning set of the CSS-3 and could indicate CSS-3 as well as CSS-2 cSS-4 misling.
 CSS-3 training has never been confirmed at the TFL CSS-2 propellant trucks and other items of CSS-2 CSS
 are also used for the CSS-3 and could indicate CSS-3 as well as CSS-2 training.
 CSS-2 training.
 - to 25 relaters. As a result, only can parked outdide the shelter on the raliquar serving the end-loading olds can be observed.

 13. (S/Ws) In February 1978, a probable CSA4 fins-stage transporter was parked in front of the insilic checkout/storage buildings in the school area. In September 1978, a probable CSA4 fins-stage is a considerable of the probability of the probab

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INSTALLATION OR ACTI	VITY NAME		COUNTRY
Dengshahe SSM Field Garrison			СН
UTM COORDINATES	GEOGRAPHIC COORDINATES 39-13-40N 122-03-21E		•
MAP REFERENCE SAC. USATC, S	eries 200, Sheets 0381-5 and 038		
LATEST IMAGERY USED May 82		NEGATION DATE (If required)	

BASIC DESCRIPTION

Location

1. (S/MN) Dengshahe SSM Field Garrison (Figure 1) is a type A missile support base on the Liaodong Peninsula, in Liaoning Province, in northeastern China. The garrison is on the northern edge of the city of Dengshahe and is one of the five missile-related facilities in the immediate vicinity of Dengshahe. By road, the garrison is 8 km from Dengshahe SSM field Garrison North, 9 km from Dengshahe SSM Training Launch Site 1, 4 km from Dengshahe Probable SSM RTP _______, and 25 km from Dengshahe SSM Field Position. The garrison is on flat terrain in a densely populated and heavily agricultural area. Except for aboveground power and communications lines, no C3 facilities are apparent. The field garrison is probably also served by the national-level buried communications cable network which passes within 500 meters of the facility. The walled garrison consists of a missile and GSE storage area and a barracks and housing area. A separately walled dependent housing area is 152 meters southeast of the garrison, and a separately walled missile and GSE storage section is 518 meters north of the garrison. The storage section is considered part of the missile and GSE storage area.

Missile and GSE Storage Area

- 2. (S/WN) GSE storage buildings consist of one 2-bay garage, one 5-bay garage, one 12-bay garage, one 13-bay garage, and one 16-bay garage (14 bays of which are used for vehicle storage). The 2 bays on the west end of the 16-bay garage are used in conjunction with an adjacent missile checkout/storage building. These garages provide a total of 46 bays for GSE storage. Missile and missile launcher storage buildings (two of which are in the storage section) and one open-sided, two-bay missile checkout and storage shed. This provides space to store five missile transporters or T/Es.
- 3. (S/WN) The single-bay missile checkout/storage building in the main compound was originally constructed for the shorter SRBM and is not long enough to completely accommodate the CSS-1 transporter or T/E. When CSS-1 T/Es are observed parked in these structures, one end of

the T/E protrudes from the entrance of the building. The two single-bay missile checkout/storage buildings in the missile equipment storage section are each large enough to accommodate the CSS-1 or CSS-2 transporter or T/E. Each building is 35 by 11 meters and has a 6-meter-wide drive-in entrance.

Barracks and Housing Area

4. (S/WN) The barracks and housing area contains approximately 9,693 square meters of barracks roof space. This roof space figure is reduced by 40 percent, to 5,816 square meters of barracks floorspace, to allow for the large amount of kitchen, mess, and administrative space inside these barracks. At a ratio of 4,6 square meters of floorspace per person, the garrison has the capacity to house approximately 1,264 people in 9 to 14 company-sized units. The barracks and housing area is a western-style installation which was probably built by one of the occupying European countries during the 1920s and 1930s. Most of the mess facilities are in the troop-housing buildings. There are 11 separate groups of animal pens, indicating that the installation contains 11 separate kitchens. There are eight basketball courts, seven small general storage and office buildings, and one vehicle maintenance building. The dependent housing area contains 45 to 55 separate quarters.

Construction Chronology

(S/WN) Dengshahe SSM Field Garrison is a former army barracks. It was substantially complete 5. (S/WN) Dengshahe SSM Field Garrison is a former army barracks. It was substantially completed already occupied by missile (probably SRBM) forces when first observed on interpretable photography of the facility in June 1962. Until mid-1966, canvas-covered missile CSE was stored in the open or in the separately walled missile and GSE storage section which contained two single-bay missile checkout/storage buildings. Between late 1966 and early 1967, a missile checkout/storage building and three garages with a total of 35 bays were added. By 1970 an additional five-bay garage and a two-bay garage had been constructed. Throughout the 1970s, only minor changes occurred. An open-sided shed was built to cover two missile transporters or T/Es, and six bays were added to a garage. Improvements were made to the dependents housing area, and a wire fence was constructed within the garrison to separately secure the missile equipment storage area.

Missile System Association and Activity

6. (S/WN) Dengshahe SSM Field Garrison was transferred to the CSRF in the early 1960s. Missile GSE has been observed in the installation since June 1962, when one SRBM T/E, one mobile gantry crane, and five trucks or trailers were observed. There is no photography to indicate when the missile equipment arrived. SRBM GSE was observed again in August 1962 and November 1964. In October 1966, CS-1 GSE was observed for the first time when 1 CSS-1 T/E and 23 other vehicles were seen. An SRBM transporter and two mobile gantry cranes were also present. This was the last observation of SRBM GSE at this facility before it was converted from SRBMs to MRBMs. CSS-1 GSE was frequently observed between 1966 and March 1982, the date of the latest imagery. Additionally, in May 1978, CSS-2 GSE, consisting of three CSS-1 transporters or T/Es, was confirmed for the first time. CSS-2 GSE has been frequently observed since 1978. As many as three CSS-1 T/Es and three CSS-2 transporters/T/Es have been observed at the same time in the open storage areas at the base. From November 1981 to May 1982, no CSS-2 CSE was observed and it is possible that the CSS-2 units had departed. CSS-1 GSE was still present as of March 1982. In May 1982, CSS-2 GSE was again observed in the garrison along with CSS-1 GSE.

25X1

25X1



INSTALLATION OR ACTI	VITY NAME		COUNTRY		
Dengshahe SSM	1 Field Garrison North		СН		
UTM COORDINATES	GEOGRAPHIC COORDINATES 39-18-09N 122-03-58E				25X1
NA MAP REFERENCE SAC. USATC, Se	eries 200, Sheets 0381-5 and -10,	scale 1:200,000		_	
LATEST IMAGERY USED		NEGATION DATE (If required)		_	
May 82		Mar 66		_	

BASIC DESCRIPTION

Location

1. (S/WN) Dengshahe SSM Field Garrison North (Figure 1) is a type A missile support base and is one of five missile-related facilities in the vicinity of Dengshahe. By road, it is 8 km from Dengshahe SSM 17 km from Dengshahe SSM Field Garrison, 12 km from Dengshahe Probable SSM RTP Training Launch Site 1, and 33 km from Jinxian SSM Field Position. The garrison is on flat terrain in a densely populated and heavily cultivated area. Except for aboveground power and communications lines, no C3 facilities are apparent. The field garrison is probably also served by the national-level buried communications cable network which passes within 500 meters of the facility. The walled garrison consists of a missile and GSE storage area and a barracks and housing area.

Missile GSE Storage Area

2. (S/WN) The missile and GSE storage area contains a single-bay missile checkout/storage building and GSE storage buildings consisting of a 4-bay garage, a 6-bay garage, and a 20-bay garage, which provide space to store 30 vehicles and one missile on its transporter or T/E.

Barracks and Housing Area

3. (S/WN) The barracks and housing area contains approximately 3,575 square meters of barracks roofspace. Because several of the barracks contain floorspace which is used for other purposes, such as administration and mess, it is estimated that 2,733 square meters of floorspace were allocated for barracks. This would provide the capacity to house approximately 594 personnel in four to six company-sized units. The garrison has two messhalls, one large kitchen, one possible kitchen, and five basketball courts.

Construction Status

4. (S/WN) All of the barracks and a six-bay garage were present when the facility was first observed in June 1962. The missile checkout/storage building, a four-bay garage, and an additional six-bay garage were constructed in late 1966. In 1980 the garrison was expanded. The 6-bay garage was expanded by the addition of a 14-bay extension, creating a 20-bay garage. A new security wall was added to enclose a larger area. A new support building was added to the GSE storage area, and a new messhall was constructed in the barracks and housing area. In early 1982, construction was underway on a new 14-bay

Missile System Association and Activity

5. (S/WN) The garrison was first usable when the missile checkout/storage building and new garages were completed in 1966. Although the arrival of CSS-1 GSE was observed at nearby Dengshahe SSM Field Garrison in late 1966, GSE could not be confirmed at Dengshahe SSM Field Garrison North until August 1973, when four cryogenic oxidizer trailers and five fuel trucks (all of the necessary propellant vehicles for a CSS-1 unit) were observed. CSS-1 GSE was observed sporadically through March 1982. CSS-2 GSE was observed for the first time in May 1979. The CSS-1 GSE remained in the storage area through March 1982. The CSS-2 GSE was removed after August 1981.

25X1

IA-Dengshahe North-1 **SECRET**

RCA-01/0007/82



Yidu SSM Tech	nical Training Facility		СН
M COORDINATES	GEOGRAPHIC COORDINATES 36-36-09N 118-28-49E		
AP REFERENCE SAC. USATC, S	eries 200, Sheet 0381-22, scale 1:	200,000	
TEST IMAGERY USED		NEGATION DATE (If required)	
Mar 82		NA	

BASIC DESCRIPTION

Location

1. (S/WN) Yidu SSM TTF (Figure 1) is near the isthmus of the Shandong Peninsula, in Shandong Province in northeast China. Yidu TTF is 7.4 km south of the town of Yidu. There have been no other missile-associated facilities identified nearby. The nearest railhead is 15 km to the north. The TTF is situated in a natural valley on hilly terrain in a heavily agricultural and densely populated area. Electric power is supplied through overhead lines from the local power grid. Except for overhead power and communication lines, no C3 facilities are apparent. The TTF contains a missile and GSE storage area, an SSM training area, and a barracks and housing area.

Missile and GSE Storage Area

NSTALLATION OR ACTIVITY NAME

2. (S/WN) GSE storage is provided by one single-bay garage, one two-bay garage, one three-bay garage, one five-bay garage, one eight-bay garage, five nine-bay garages, and one ten-bay garage. These garages provide enough space to store 74 vehicles. Missile and missile-launcher storage is provided by one two-bay (CSS-3 first-stage) missile checkout/storage building, one single-bay (CSS-3 second stage) missile checkout/storage building, and two double-length, two-bay missile checkout/storage buildings. These four missile checkout/storage buildings have a total of 11 bays for storing transporters or T/Es.

Barracks and Housing Area

3. (S/WN) Yidu TTF contains approximately 14,468 square meters of roof space, including several multistory barracks. This equals 11,574 square meters of floorspace. At a ratio of approximately 4.6 square meters of floorspace per person, Yidu TTF has the capacity to house approximately 2,516 people in 17 to 27 company-sized units. There are 162 vault-roofed family quarters, 28 other family quarters, and 32 BOQs. This would add a total of 222 military people to the overall garrison capacity. A separate housing compound (not on graphic) east of the TTF was originally considered to be part of the TTF, but is now housing workers building a nearby airfield. The TTF contains three large and eight small messhalls, one large auditorium/gymnasium, an outdoor stadium/movie theatre, and five basketball courts.

Construction Chronology

4. (S/WN) With the exception of the SSM training launch pad, Yidu TTF was substantially complete when it was observed on the first interpretable photography of the facility in December 1962. A standard-sized concrete launch pad surrounded by a semicircular concrete apron, hardstands,

and two paved access roads had been constructed in the SSM training area by January 1965. Between May and November 1971, the semicircular concrete apron around the pad was enlarged to its present circular form. With the exception of the launch pad apron enlargement/conversion, no substantial construction activity occurred from 1965 until 1978.

5. (S/WN) In 1978, a major construction/expansion program started at Yidu TTF. By late 1980, 26 new buildings had been constructed. In the GSE storage area, a ten-bay garage had been completed by mid-1980. A large multistory headquarters building, four multistory barracks, and a large three-section messhall had been completed by late 1980. By late 1981, a new administration/classroom building, a new multistory barracks, and a three-section messhall building had been completed.

Missile System Association and Activity

- (S/WN) Technical training for every known Chinese strategic missile system except the CSS-4 and WU-1 has been observed at Yidu TTF. Missile training exercises and GSE for the SRBM, CSS-1, CSS-3, and most recently the CSS-2 have all been observed at the TTF since October 1971.
- 7. (S/WN) SRBM and CSS-1 GSE were first identified at the TTF in November 1971, when an SRBM T/E and a CSS-1 T/E were present. This first positive identification of missile equipment at Yidu confirmed that the TTF was a missile training center. Previously, the function of the facility had not been determined. In May 1972, an SRBM airframe was observed erected on the pad with an SRBM T/E backed up to it. SRBM and CSS-1 training exercises and GSE were frequently observed at Yidu TTF through 1977.
- 8. (S/WN) Between November 1970 and November 1971, a 37-meter-high, steel lattice, missile service tower was constructed 76 meters east of the launch pad. Six fixed service platforms were set within the tower at various heights. A missile could be lifted into the tower from one side. The tower was designed to duplicate the missile service platform levels in a CSS-3 silo and provide realistic technical training for CSS-3 personnel. The tower was removed from Yidu TTF in 1977 and transfered to the Danzhou SSM TTF While at Yidu, the missile service tower apparently was used exclusively for CSS-3 training.
- 9. (S/WN) Possible CSS-3 GSE was first observed in September 1972 when a CSS-2 or CCS-3 firststage transporter was detected. In May 1973, a CSS-3 second-stage transporter was confirmed. The first sighting of a CSS-3 airframe occurred in October 1975 when the first and second stages of CSS-3 missile were observed aboard their transporters. A CSS-3 airframe was in the missile service tower in November 1977. Since the removal of the missile service tower from Yidu TTF in late 1977, no further CSS-3 equipment or training has been observed.
- 10. (S/WN) Full complements of CSS-2 GSE were first seen at Yidu in late 1978; technical training on other missile systems was no longer observed. In June 1979, the first CSS-2 missile exercise in which a CSS-2 missile was erected was observed on the pad. Major components of a CSS-2 launch unit, including a warhead van, a TMC, and 11 CSS-2 propellant vehicles, were also present. During all of the CSS-2 missile training exercises, a light-toned CSS-2 airframe with an optical tracking stripe (probably an inert training missile) was observed. Since June 1979, ten CSS-2 missile training exercises have been observed. The most recent CSS-2 exercise was Since June 1979, ten CSS-2 missile training at Yidu TTF has apparently been undergoing its annual winter standdown. No unusual activity was observed through March 1982, the date of the latest imagery.

Imagery Analyst's Comments

11. (S/WN) Missile technical training for the SRBM, CSS-1, CSS-3, and possibly the CSS-2 was conducted at Yidu TTF until mid-1978. Since 1978, only CSS-2 launch unit training has been observed. Since the shift to CSS-2 launch unit training, as many as two complements of CSS-2 GSE have been observed in training exercises and/or based at Yidu throughout the year. The CSS-2 launch units based or undergoing training at the TTF could be considered operational and capable of deploying from Yidu. For this reason, Yidu can be considered to have been an SSM field garrison as well as a CSS-2 launch unit training facility since 1978. Missile technical training, previously conducted at Yidu, has been shifted to Jiumengijin SSM TTF and to Danzhou SSM TTF.

25X1

25X1

25X1

NSTALLATION OF ACT	VITY NAME		COUNTRY
Kunming SSM			СН
TM COORDINATES	GEOGRAPHIC COORDINATES		
NA	24-55-34N 102-47-55E		
SAC. USATC, S	eries 200, Sheet 0496-17, scale	1:200,000	
ATEST IMAGERY USED		NEGATION DATE (H required)	
Mar 82		Jan 67	

BASIC DESCRIPTION

Location

1. (S/NN) Kumming SSM Field Garrison (Figure 1) is in Yunnan Province in south China, 12 km southeast of Kumming, the capital city of the province. It is on level ground in a heavily agricultural densely populated area and is one of three missilar-leated facilities in the immediate vicinity of the city. Kumming SSM RTP | is 7 km by road east-northeast of the field garrison. Kumming SSM Training Launch Site 1 is in mountainious sterrain 28 km by road southeast of the field garrison. No missile GSF has been seen at the garrison may now be sight related instead of SSM related. The field garrison is a walled facility which contains an administration area, a missile and OSE storage area, a communications support area (which appears to be deactivated), and a barracks and housing area.

Missile and GSE Storage Area

2. (S/WN) GSE storage at the garrison is provided by one 15-bay garage, one 8-bay garage, one 27-bay garage, one 12-bay garage, one large 3-bay garage, and one large 2-bay garage (normally used to store A-frame cranes). This provides enough space to store S/ vehicles. Missile and missile launcheckout and storage is provided by one two-bay missile checkout/storage building and one single-bay missile checkout/storage building. These two missile checkout/storage buildings have the capacity to store three transporters and/or 15 missile checkout/storage buildings have the capacity to store three transporters and/or 15 missile checkout/storage buildings have the capacity to store three transporters and/or 15 missile checkout/storage buildings.

3. (S/WN) The barracks and housing area contains approximately 5,950 square meters of barracks roofspace. Because several of the barracks contain floorspace which is used for other purposes, such administration or mess, it is estimated that 4,760 square meters were allocated for barracks floorspace at a ratio of 4.6 square meters of floorspace per person, the field garrison has the capacity to house

approximately 1,034 personnel in 7 to 11 company-sized units. The garrison contains 3 messhalls, 2 associated kitchens/food storage buildings, 5 basketball courts, 1 auditorium, and 30 family housing units.

4. (S/NN). Kunning SSM field Garison is a former army barracks. The administration and housing buildings were substantially complete when it became associated with the CSRF in 1967. From 1967 to 1970, we menu garage were constructed to store misule GSE. While these garages were under construction, misule GSE was stored in tents and in the open. No significant new buildings were constructed between 1970 and 1979. During 1980 and 1981, construction resumed. A messhall was constructed in the barracks and housing area. Since the beginning of 1981, one new multistory administration building and an auditorium/rechnical support building have been completed in the administration area. Since June support buildings/sheds have been completed in the missile and CSE storage area. Two large support area appears to be deactivated. Two operations buildings remain, but may now be utilized for other purposes since the seven dipole antennas that previously existed were removed between May and June 1981.

Missile System Association and Activity

Missile system Association and Activity

5. (5/NN). The garition, a former army barracks, was transferred to CSRF use in 1967. Missile activity
has been observed at the garrison since November 1987, when two 28-meter-long SRBM checkout tents
of \$2+ oblevel-pieces of CSF were observed. In November 1986, on the first high-resolution imagery of
the garrison, missile CSF was confirmed, Five canvas-covered cryogen trailers and one A-frame crane
typically associated with the CSF-01 were present. Small amounts of SRBM and CSS-1 CSF were observed
from 1986 through 1973. Both SRBM and MRBM units conducted training exercises at the associated
from 1986 through 1973. Both SRBM and MRBM units conducted training exercises at the associated
from 1996 through 1970. No missile CSF vas observed between 1975 and February 1976. In 1976 two
possible CSS-1 cryogen trailers were observed. During October 1978, CSS-2 CSF consisting of two consisting of two consisting control of the control

Imagery Analyst's Comments

6. (S/WN) Except for aboveground electric and communications lines, there are no C3 facilities within the garrison. Chenggong SSM Support Radcom Station couples the southeast corner of the garrison and is separately walled. Except for its location, there has never been any evident this radcom station is SDM associated. In own appears that the radcom station is part of an extensive signit complex in the Kunming area. Since November 1979, no missile GSE has been observed at the field garrison. As of 1982, construction workers were present, new buildings were under construction throughout the garrison, and all SSM-associated communications had been removed. The lack of missile activity and the construction during 1980 and 1981 indicate that the garrison is being converted to another function, possibly sigint related.

25X1

25X1

25X1

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nstallation of activity name Dianhu SSM Support Facility			COUNTRY
			СН
NA	GEOGRAPHIC COORDINATES 34-13-01N 112-11-26E		
SAC. USATC,	Series 200, Sheet 0385-13, scale 1:		
LATEST IMAGERY USED		NEGATION DATE (If required)	
Mar 82		Oct 69	

BASIC DESCRIPTION

. .

1. (S/MN) Dianhu SSM Support Facility (Figure 1) is a deactivated type A missile support base (field garison). It is in Henan Province, in the Wuhan MR, in east-central China, 2 km south of the town of Dianhu, 35 km south-sputhwest of the city of Luayang, and 95 km noty. Facility is a first and subsequently of the south complete and the first substant complete and substant complete and substant complete and substant complete and substant su

Missile and GSE Storage Area

(S/WN). When the facility was operational, missile and GSE storage consisted of one 30- by 9-meter missile checkout/storage buildings, three 23- by 9-meter missile checkout/storage buildings, one 12-bay garage, and two open-storage/parking area.

Barracks and Housing Area

3. (S/WN) The barracks and housing area contains approximately 3,830 square meters of floorspace in 21 barracks for six to nine company-sized units. The garrison also contains six messhalls, one C-shaped

administration building, two probable single-family structures, one possible auditorium, three support buildings, and three basketball courts.

Construction Chronology

4. (S/WN) This facility was converted from a PLA installation for use by the CSRF between October and December 1969, when four drive-in missile checkout/storage buildings were constructed. Two vehicle sheds were built near the checkout buildings between August 1970 and June 1971. These were subsequently removed, and a single 12-buy garage was constructed between November 1974 and December 1973. The missile checkout/storage buildings were removed between February and March 1978.

Missile System Association and Activity

5. IS/WNI. Missile GSE was probably in garrison by December 1969. Probable GSE was observed in August 1970, but could not be confirmed until February 1974 when three cryogen trailers were identified. GSE related specifically to an SSM was not identified until February 1976, when an SRBM 17E and two gantry carses were observed. A possible warhead van was observed during October 1977. The cryogen trailers were observed until March 1978.

Imagery Analyst's Comments

- [S/WN] The GSE from this garrison has probably been moved to a storage facility at the Sundian SSM Complex. SRBM GSE was observed at Sundian Cave Storage Facility/SSM | and Sundian Possible SSM Propelant Storage Area | on imagery of August and September 1978, the first imagery available after the garrison was deactivated in March 1978.
- 7. (S/WN) SRBM equipment from this garrison may have been involved in a combined SRBM and CSS-1 training exercise at Jlumengjin SSM TIF, 90 km by road to the north, during December 1977. CSE to comrally seen at Dlanhu was not present;

 an SRBM and a CSS-1 were erected at Jlumengjin. CSE was observed again at Dlanhu
 following the completion of the training exercise at Jjumengjin.
- 8. [S/NN] A probable SRBM field exercise was observed approximately 55 km southwest of the facility during December 1975. Two SRBM checkout tents and ten support vehicles were observed in a stream valley, but no launch area was ever discerned. This GSE was not seen when the area was next imaged in January 1976. Dianhu is the nearest SRBM base to the exercise area, and the equipment probably deployed from this garrison.

25X1 25X1 25X1 25X1 25X1 25X1

SECRET

Fengrun SSM Field Garrison			СН
UTM COORDINATES	GEOGRAPHIC COORDINATES		
NA	39-51-22N 118-05-37E		
MAP REFERENCE			
SAC. USATC,	Series 200, Sheet 0381-2, scale 1	:200,000	
SAC, USATC,	Series 200, Sheet 0381-2, scale 1	:200,000 NEGATION DATE (If required)	

BASIC DESCRIPTION

Location

1. (S/WN) Fengrun SSM Field Garrison (Figure 1) is in Hebei Province in northern China. The garrison is 4 km northwest of Fengrun and 26 km northwest of Tangshan. It is situated on flat terrain in a densely populated and heavily agricultural area. Fengrun SSM Field Garrison is one of two missile-related facilities in the vicinity of Fengrun. Fengrun SSM Training Launch Site is 39 km north northeast of Fengrun SSM Field Garrison is one of two missile-related facilities in the vicinity of Fengrun. Fengrun SSM Field Garrison flower flow Evcept for aboveground power and communications lines, no C3 facilities are apparent. Although no RTP has been identified, rail service is available from a rall line that passes within 1.0 km of the garrison. Fengrun SSM Field Garrison consists of a missile and GSE storage area and a barracks and housing area.

Missile and GSE Storage Area

- IS/WN) GSE storage is provided by one 22-bay garage, one 17-bay garage, two 15-bay garages, two 14-bay garages, one 10-bay garage, two 9-bay garages, and two 7-bay garages. These 11 garages provide a total of 137 bays for vehicle storage.
- 3. (S/WN) Additional CSE storage is provided in the southwest corner of the garrison where one 22-bay garage; one 27-bay garage; a single-bay, drive-in vehicle maintenance building; and two 2-bay, drive-in vehicle storage/maintenance buildings are located. These five garages/vehicle support buildings provide a total of 54 additional bays for vehicle storage.
- 4. (S/WN) Missile and missile launcher storage is provided by a two-bay, drive-through, probable RIM building and four identical two-bay, 25- by 10-meter missile checkout/storage buildings. These five buildings provide a total of 10 bays for transporter or T/E storage.
- 5. (S/WN) Fengrun SSM Field Garrison contains a total of 191 bays for vehicle storage and 10 bays for transporter or T/E storage.

Other Storage

Z-14569/82

6. (S/WN) Warehouse storage is provided by four large and eight smaller warehouses located throughout the field garrison. A separately walled POL storage compound is in the extreme southwest corner of the garrison. There is also a separately fenced former ammunition storage area (not shown on the graphic) 325 meters northwest of the garrison.

Barracks and Housing Area

- 7. (S/WN) The barracks and housing area contains approximately 15,138 square meters of barracks roofspace in 34 barracks. This equates to approximately 12,110 square meters of barracks floorspace. At partial of 4.6 square meters of floorspace per person, the garrison has the capacity to house approximately 2,632 personnel in the barracks in 18 to 29 company-sized units. Additionally, there are 105 family quarters, 40 quarters for signle officers, and four VPI quarters. All the family quarters and most of the single office quarters are in a separately walled compound in the southeast corner of the garrison. The family, single officer, and VIP quarters can accommodate approximately 149 officers and noncommissioned officers.
- 8. [S/WN] Fengrun SSM Field Garrison contains a headquarters building, an administration building and bachelor quarters, 4 large and 6 smaller messhalls, 17 basketball courts, and 2 large parade/athletic fields. A weather station, a large walled agricultural area under cultivation, and a complex of 12 large greenhouses for food production are also present.

Construction Chronology

- 9. (S/WN) Fengrun SM Field Garrison, a former infantry regiment installation, was substantially complete when it was transferred from ground forces to CSRF use in 1971. In March and April 1971, four missile checkout and storage building and four garages were complete, and the probable RIM building, another missile checkout/storage building and four garages were complete, and the probable RIM building, another missile checkout/storage buildings, and another garage were under construction. By May 1972 all of the missile and CSE storage buildings, with the exception of a 15-bay garage (constructed between 1976 and 1977) and a nine-bay garage (added in 1980) were present and appeared to be complete. Two garages damaged during a 1976 earthquake were later dismantled and rebuilt.
- 10. (S/NN) During 1976 and 1977, a new housing area consisting of two barracks and a messhall was constructed in the southwest corner of the garrison. A major construction/refurbishment program occurred during 1978 and 1980, when the three large warehouses in the southwest corner of the garrison were reroofed and three smaller warehouses were constructed.

Missile System Association and Activity

11. (S/WN) Fengun SSM Field Carrison was transferred to CSRF use in 1971. CSS-1 GSE has been observed there since March 1971, when two probable CSS-1 transporters, one probable CSS-1 T/E were observed. By August 1972, the amount of CSS-1 GSE had been opensible CSS-1 T/E were observed. By August 1972, the amount of CSS-1 GSE had been observed at the garrison. As a safety precaution following the severe earthquake of July 1976, GSE for major portions of four CSS-1 launch units was parked outside the garages. Major elements of four CSS-1 launch units was parked outside the garages. Major elements of four CSS-1 launch units are usually seen at Fengun. During periods when CSS-1 training is underway at Fengrun SSM. Training Launch Site, the GSE count at the garrison fluctuates. All GSE is stored inside buildings, except for 4 empty CSS-1 transporters and 10 to 20 vehicles. CSS-1 GSE continued to be observed through March 1982, the date of the latest imagery.

Imagery Analyst's Comments

12. (S/WN) A large division- or army-level military headquarters facility (Fengrun Military Installation;

| Na been constructed 800 meters northeast of this garrison. It is not yet clear if the 25X1 men headquarters is related to the misslle forces or the ground forces. There is an overhead communications line between the SSM field garrison and the new headquarters, but no other evidence of a direct relationship. The new headquarters is complete and contains its own communications area with at least four IH horizontal dipole antennas.

INSTALLATION OR ACTI	COUNTRY		
Xixia SSM Field	l Garrison		СН
UTM COORDINATES	GEOGRAPHIC COORDINATES 33-20-57N 111-29-29E		'
SAC. USATC, S	Series 200, Sheet 0385-17, scale	1:200,000	
Feb 81		NEGATION DATE (If required) Jul 73	

BASIC DESCRIPTION

Location

1. (S/WN) Xixia SSM Field Garrison (Figure 1) is a deactivated type A missile support base. It is in Henan Province, in the Wuhan MR, in east-central China. It is 6 km north-northeast of the town of Xixia, 65 km south of Sundian Missile Launch Complex SSM, and 175 km south-southwest of the city of Luoyang. These distances are considerably longer by road. This is one of two deactivated type A missile support bases in the general area. It was operational from September 1973 through February 1979. The installation is in a wide valley near the base of a mountain which has an elevation of 600 meters above the valley floor. The installation is road served and partially wall secured. The closest rail line is in the city of Nanyang, 90 km from Xixia by road. Electricity is supplied from the local power grid via overhead transmission lines. Communications are provided by aboveground lines. A buried communications cable has been observed extending north from the national-level trunk line approximately 120 km towards Xixia. The cable was traced to within 20 km of the garrison and may have provided secure communications to the garrison. The facility consists of a wall-secured missile and GSE storage area and a barracks and housing area.

Missile and GSE Storage Area

(S/WN) Missile and GSE storage consisted of three 24- by 10-meter 2-bay missile checkout/storage buildings and four garages with a total of 36 bays. Seven personnel support and general storage buildings are also present. A perimeter wall encloses the missile and GSE storage area and separates it from the housing area.

Barracks and Housing Area

(S/WN) The barracks and housing area contains approximately 1,106 square meters of floorspace
in three barracks for 240 personnel or two to three company-size units. Two basketball courts and two
messhalls containing three kitchens are present.

Construction Chronology

4. (S/WN) A two-story building, possibly a local school, and an open storage area used for agricultural equipment had been converted to CSRF use by September 1973. No indication of a CSRF function was discernable on imagery of July 1973. The sides of the missile checkout/storage buildings and most of the perimeter wall were constructed. When the facility was imaged in February 1974, a 12-bay garage and a 9-bay garage had been built and the roofs of the missile checkout/storage buildings were under construction. By July, a six-bay garage, the roofs of the missile checkout/storage buildings, and a messhall in the housing area had been finished. When the facility was next imaged in October, a nine-bay garage had been added. No further changes were observed until December 1977, when a messhall and a probable barracks were constructed. Evidence that the garrison was being abandoned was first seen in February 1979 when the 12-bay garage and 9-bay garages were dismantled. By May 1979, no GSE was present.

Missile System Association and Activity

5. (S/WN) GSE was first observed during September 1973. A CSS-1 A-frame crane, an SRBM mobile gantry crane, and cryogen transporters used for both SRBMs and MRBMs were identified. A CSS-1 T/E was observed during December 1973 and February 1974. In November 1976, a GSE convoy was observed leaving the facility. During July 1978, type O propellant transporters, associated with the CSS-4, were observed parked in open storage. A probable warhead van was near one of the checkout buildings in August 1978. The type O transporters were no longer parked in open storage in October 1978, but were probably parked in garages. Two cab-over-engine trucks were in the nine-bay garage This was the last observation of GSE at this garrison.

Imagery Analyst's Comments

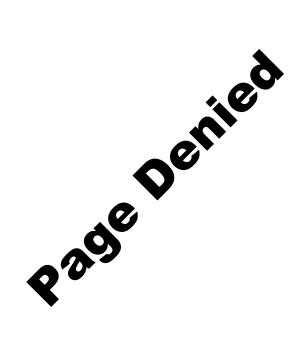
- 6. (S/WN) Prior to construction of the wall-secured portion of the facility, GSE was observed in open storage at a small village approximately 1 km to the east. Once the GSE storage buildings were completed, the GSE was transferred, but personnel from the garrison may have continued to use so_2SX1 buildings in the village for housing. The first messhall was not constructed within the garrison until July 1974. In October 1978, a formation of troops was observed outside the garrison on the road to the village. The use of the village buildings could add from one to two companies to the garrison complement. This would be a more likely number of personnel for a garrison with three missile checkout/storage buildings.
- 7. (S/WN) During December 1977, CSS-1 equipment from Xixia may have been involved in a combined SRBM and MRBM training exercise at Jiumengjin SSM TTF, 330 km by road to the north. An unusually large number of vehicles was observed at this facility in November 1977. 25X1 CSS-1 and an SRBM were erected at Jiumengjin. 25X1
- 8. (S/WN) During April 1978, type O CSS-4 propellant vehicles were brought to Xixia and stored there until the Xixia facility was abandoned in early 1979. The type O vehicles were then observed in August 1979 at the Luoning Housing/Support Area The reason for the storage of C525X1 propellant vehicles at Xixia is not known. The two CSS-4 silos at Luoning were not ready for propellant loading until mid-1980.

25X1

25X1

25X1

IA-Xixia-1 SECRET



NSTALLATION OR ACT	COUNTRY		
Datong SSM Fi	eld Garrison		
ITM COORDINATES	GEOGRAPHIC COORDINATES		
NA	37-07-02N 101-31-45E		
SAC. USATC, S	Series 200, Sheet 0332-02, scale		
LATEST IMAGERY USED		NEGATION DATE (IF re	equired)
Mar 82		May 76	

BASIC DESCRIPTION

Location

1. (S/WN) Datong SSM Field Garrison (Figure 1) is in Qinghai Province in northwest China. The garrison is in a valley in very rugged terrain at an elevation of 2,804 meters. It is 25 km by road northwest of the town of Datong and 63 km northwest of the city of Xining. The nearest railroad is in the town of Datong. The Datong Garrison is one of three known operational/occupied SSM-related facilities in north-central China. Haiyan SSM Field Training Facility is 52 km (137 km by road) southwest of the garrison. Liucingkou SSM Launch Complex is 93 km (213 km by road) northwest of Datong Garrison. Electric power is supplied by a local substation. Except for overhead power and communications lines, no C3 facilities are apparent. Datong SSM Field Garrison contains a missile and GSE storage area, an SSM training launch pad, and a barracks and housing area.

Missile and GSE Storage Area

2. (S/WN) GSE storage at Datong Garrison is provided by two 26-bay garage, one 15-bay garage, one 12-bay garage, three 10-bay garages, one 8-bay garage, one 5-bay garage, and two 4-bay garages. Missile and missile launcher storage is provided by nine two-bay missile checkout/storage buildings and one single-bay missile maintenance training building. This provides sufficient space to store 130 vehicles and 19 transporters or 1/Es.

Other Storage

3. (S/WN) Datong SSM Field Garrison also contains a vehicle repair facility, a POL storage facility, and two walk-in caves (one not shown) probably for an underground command post. Several small, boxlike van trucks, with a small circular area atop the van body, have been frequently observed in a housing/support area next to the caves. These vans and may be communications related. The garrison also contains numerous warehouses and general storage buildings.

Barracks and Housing Area

4. (S/WN) Datong SSM Field Garrison is one of the largest SSM field garrisons in China. Because some of the buildings have more than one story, it was estimated that there are 22,230 square meters of barracks floorspace. At a ratio of 4.6 square meters per person, Datong has the capacity to house approximately 4,833 people in 35 to 54 company-sized units. There are approximately 126 family quarters and/or single officer quarters. This would add an additional 126 military people to the overall garrison capacity. The garrison contains 16 messhalls, eight auditoriums, and 20 basketball courts.

Construction Chronology

- 5. (s/WN) Datong Garrison consists of three former PLA communications and related support facilities that were converted to CSRF use in 1976. With the exception of the missile and missile GSE storage buildings, the buildings used by the garrison were substantially complete at the time the CSRF conversion occurred. Most of these buildings were constructed between January 1967 and October 1971. At that time, it consisted of the Datong Probable Domestic Communications Satellite Station, the Datong HF Communications Facility | and the Datong Storage Area | all of which are now part of the SSM field garrison. Between December 1973 and November 1974, both the communications satellite station and the HF communications facility were dismantled. From November 1974 until the observation of SSM equipment in October 1976, no construction activity was seen.
- the observation of SSM equipment in October 1976, no Construction activity—was seen.

 6. (S/WN) In October 1976, construction was underway on nine two-bay missile checkout/storage buildings. These were interconnected into one set of six buildings having a total of 12 bays and one set of three buildings having a total of six bays. These buildings had been completed by April 1977. Two 26-bay garages near the 12-bay missile checkout/storage building set, and a 12-bay garage, and pays garage, and a 4-bay garage near the 6-bay missile checkout/storage building set were constructed between July and December 1977. An SSM training launch pad and slightly smaller than launch pads at operational SSM sites, was first identified in June 1978 near the six-bay missile checkout/storage building set. A CSS-2 launch stand was on the pad at the time. When not in use, the training pad is covered with earth and vegetation. Since June 1978, no significant construction has occurred.

Missile System Association and Activity

- 7. (S/WN) Only CSS-2 GSE, first identified at Datong Garrison in October 1976, has been observed. At that time, approximately 120 vehicles, including 2 probable warhead vans, a CSS-2 launch stand transporter, and 25 propellant vehicles, were at the garrison. It is likely that this equipment came from the Wuwei SSM Field Garrison which is 93 km northeast of Datong. SSM equipment was last observed at Wuwei on photography of May 1976. All equipment had been removed from that facility by early October. PLA ground force units have occupied the Wuwei facility.
- 8. (S/WN) Numerous pieces of CSS-2 GSE were observed on imagery of April, September, and October 1977. A CSS-2 T/E was first seen at the garrison in open storage on imagery
- 9. (S/WN) In October and November 1977, there was a sharp decrease in the number of vehicles observed in open storage at the garrison. This decrease can be mostly attributed to the completion of the GSE storage buildings. From November 1977 until June 1978, little or no activity was observed in the garrison. In June 1978, activity increased and the training launch pad was first observed completed. A CSS-2 T/E was backed up to the launch stand on the pad. The activity at the training launch pad had ended by 2 June. It is possibile that this CSS-2 GSE was subsequently transferred to the Liuqingkou SSM Launch Complex. An increase in CSS-2 GSE was observed at the Liuqingkou complex between August and October 1978.
- 10. (S/WN) CSS-2 units based at Datong Field Garrison may also utilize Haiyan SSM Field Training Position. In June and July 1979, some CSS-2 units were preparing to depart the garrison. In August, they were apparently gone from Datong. Also in June, one CSS-2 unit was in training at the Haiyan Facility. Following completion of the training at Haiyan, a CSS-2 unit had returned to Datong by October 1979. In March 1981, GSE was again observed at Datong being prepared for departure. In early April, CSS-2 field training was in progress at Haiyan. By September 1981, the CSS-2 GSE was gone from Haiyan and had probably returned to the Datong Garrison.

Imagery Analyst's Comments

11. (S/WN) The echelon and organization of the units based at Datong are not certain. The Datong SSM Field Garrison, one of the largest SSM field garrisons identified in China, is large enough to contain most of the elements of two regiment-sized units and a senior headquarters. The large amount of administration space present may be used to house an SSM division- or army-level headquarters unit.

IA-Datong-1 SECRET 25X1 25X1

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25X1

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25X1

